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FILE COVERS 1907 - 27 Sep 2003 VOL 139 ISS 14

FILE LAST UPDATED: 26 Sep 2003 (20030926/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

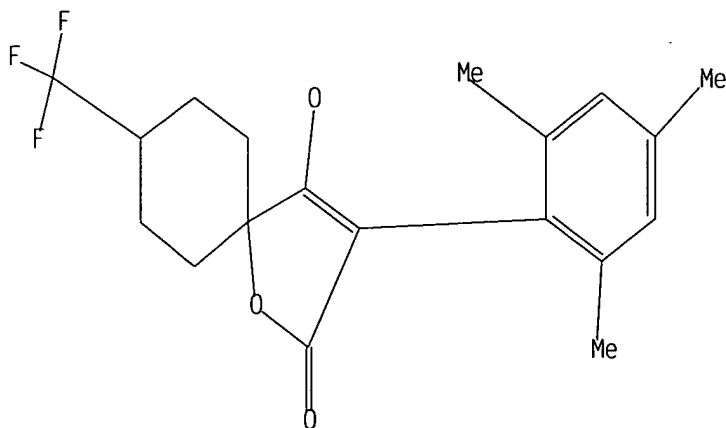
'FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

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L4 1 L3

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Structure attributes must be viewed using STN Express query preparation.

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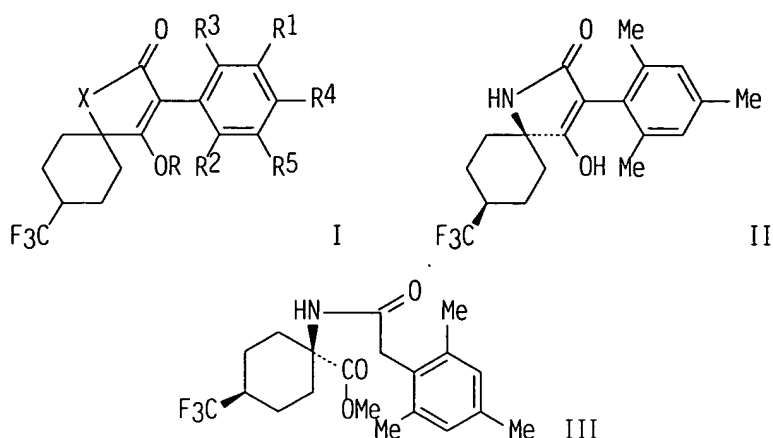
10/088.979

Page 2

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2001:247313 CAPLUS
 DOCUMENT NUMBER: 134:280721
 TITLE: Preparation of trifluoromethyl spirocyclic ketoenols
 for use as pesticides and herbicides
 INVENTOR(S): Fischer, Reiner; Graff, Alan; Bretschneider, Thomas;
 Erdelen, Christoph; Drewes, Mark Wilhelm; Feucht,
 Dieter
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 144 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001023354	A2	20010405	WO 2000-EP9270	20000919
WO 2001023354	A3	20020228		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19946625	A1	20010405	DE 1999-19946625	19990929
BR 2000014352	A	20020611	BR 2000-14352	20000919
EP 1220841	A2	20020710	EP 2000-967741	20000919
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003510308	T2	20030318	JP 2001-526508	20000919
PRIORITY APPLN. INFO.: DE 1999-19946625 A 19990929 WO 2000-EP9270 W 20000919				

OTHER SOURCE(S): MARPAT 134:280721
 GRAPHIC IMAGE:



ABSTRACT:

Spirocyclic ketoenols, such as I [$X = O, NH$; $R = H, \text{acyl}, \text{alkyloxycarbonyl}$, etc.; $R1 = H, \text{halogen}, \text{alkyl}, \text{alkoxy}$; $R2 = H, CN, NO_2, Ph, PhO, PhS, \text{alkyl}, \text{alkenyl}, \text{alkynyl}, \text{alkoxy}, \text{haloalkyl}, \text{haloalkoxy}, \text{phenylalkoxy}, \text{phenylalkylthio}$; $R3 = H, CN, NO_2, Ph, PhS, PhO, \text{alkyl}, \text{alkenyl}, \text{alkynyl}, \text{alkoxy}, \text{haloalkyl}, \text{haloalkoxy}, \text{phenylalkoxy}, \text{phenylalkylthio}$; $R4 = H, CN, NO_2, \text{halogen}, \text{alkyl}, \text{alkoxy}, \text{haloalkyl}, \text{haloalkyloxy}$; $R5 = H, CN, NO_2, OH, PhS, PhO, \text{halogen}, \text{alkyl}, \text{alkoxy}, \text{haloalkyl}, \text{haloalkoxy}, \text{heteroaryloxy}, \text{phenylalkoxy}, \text{phenylalkylthio}$], were prepd. for use as pesticides and herbicides. Thus, spirocyclic ketoenol II was prepd. in 74% yield by intramol. cyclocondensation of ester III, which was prepd. starting from 4-(trifluoromethyl)cyclohexanone and mesityleneacetyl chloride. The prepd. spirocyclic ketoenols were tested for insecticidal activity against species, such as *Myzus persicae*, *Aphis gossypi*, and *Tetranychus urticae*.

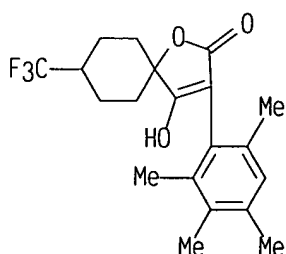
IT 332348-73-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides)

RN 332348-73-9 CAPLUS

CN 1-Oxaspiro[4.5]dec-3-en-2-one, 4-hydroxy-3-(2,3,4,6-tetramethylphenyl)-8-(trifluoromethyl)- (9CI) (CA INDEX NAME)



IT 332348-80-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides)

RN 332348-80-8 CAPLUS

CN Propanoic acid, 2-methyl-, 2-oxo-3-(2,3,4,6-tetramethylphenyl)-8-(trifluoromethyl)-1-oxaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

